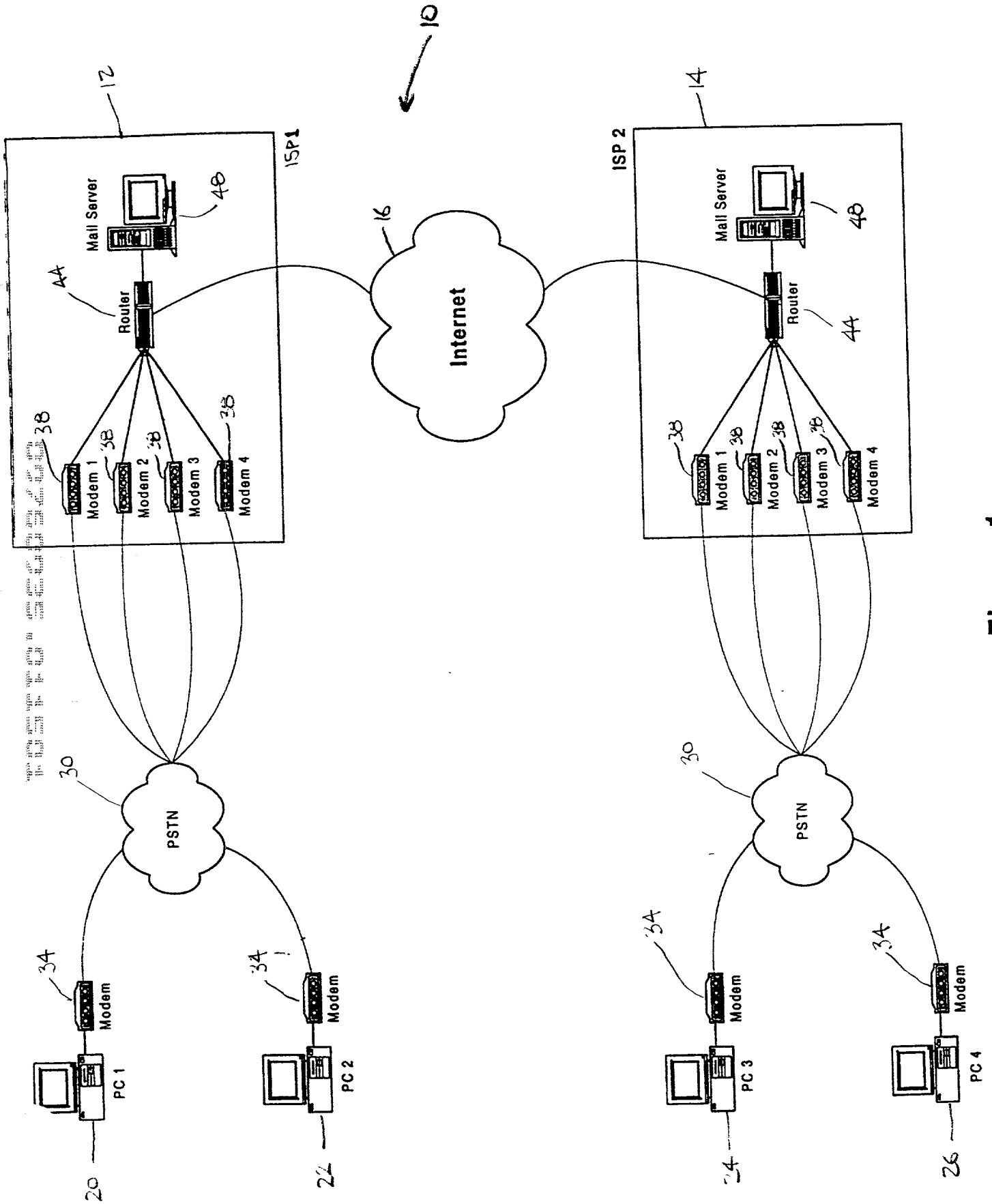
10
12
ISP 1
Mail Server
48
44
Router
16
Internet
14
ISP 2
Mail Server
48
Router
44
38
Modem 1
Modem 2
Modem 3
Modem 4
30
PSTN
34
Modem
PC 1
PC 2
PC 3
PC 4
20
22
24
26

Figure 1

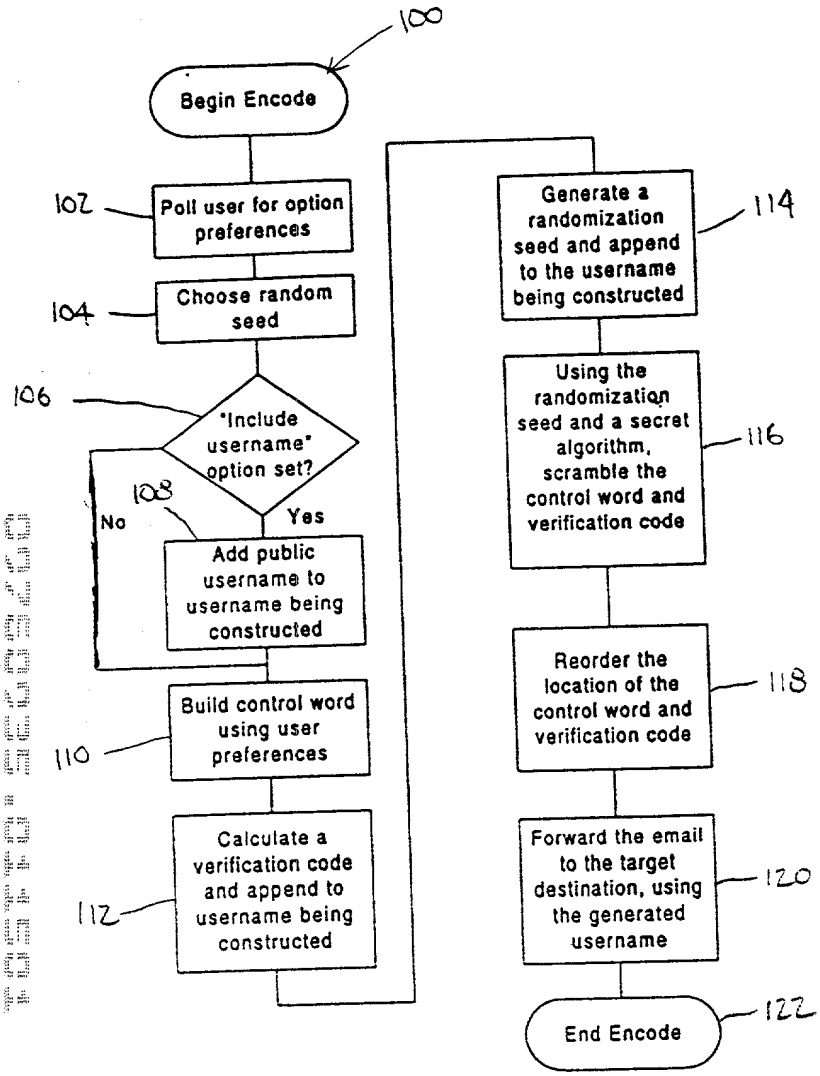
100
Begin Encode
102
Poll user for option preferences
104
Choose random seed
106
"Include username" option set?
No
Yes
108
Add public username to username being constructed
Build control word using user preferences
110
Calculate a verification code and append to username being constructed
112
Generate a randomization seed and append to the username being constructed
114
Using the randomization seed and a secret algorithm, scramble the control word and verification code
116
Reorder the location of the control word and verification code
118
Forward the email to the target destination, using the generated username
120
End Encode
122

FIG. 2

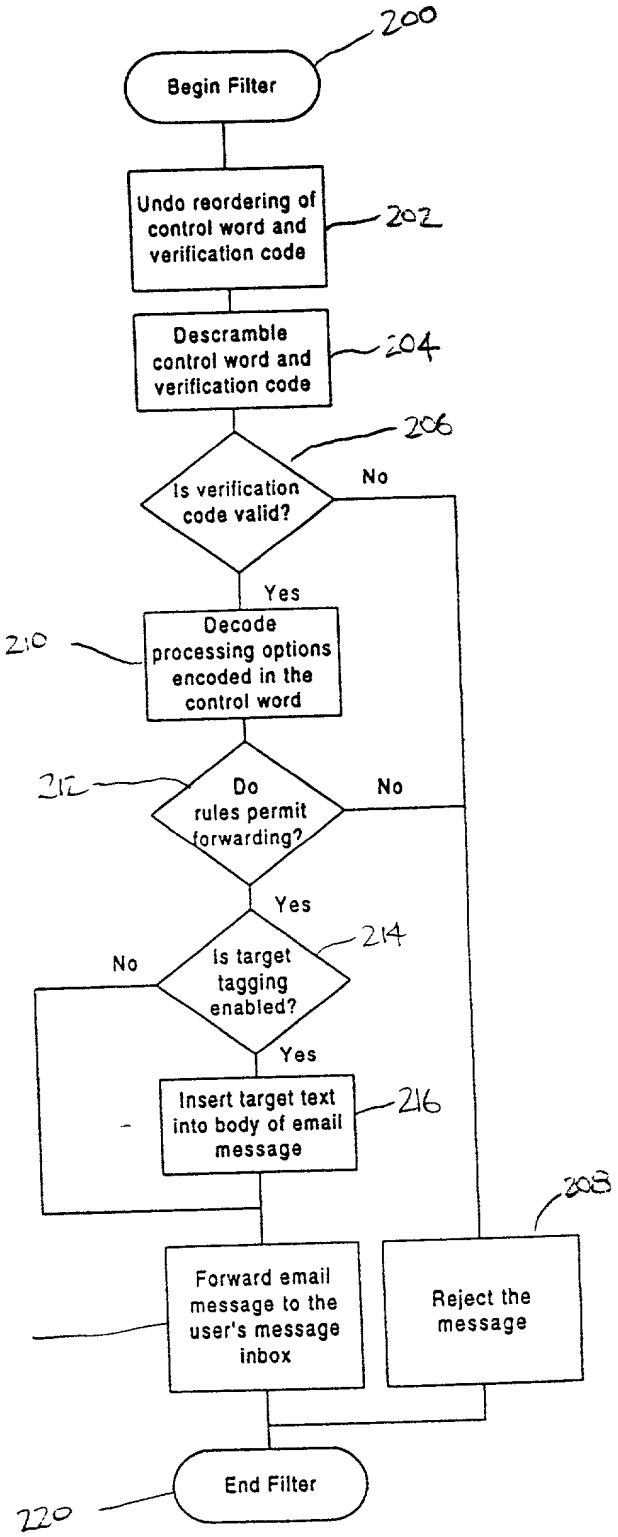
200
Begin Filter
Undo reordering of control word and verification code
202
Descramble control word and verification code
204
206
Is verification code valid?
No
Yes
210
Decode processing options encoded in the control word
212
Do rules permit forwarding?
No
Yes
214
Is target tagging enabled?
No
Yes
Insert target text into body of email message
216
208
Forward email message to the user's message inbox
218
Reject the message
End Filter
220

FIG. 3